Performance Data Sheet

AVD5545EXN

General Information

Model	AVD5545EXN	**Refrigerant**	R-22
Test Condition	ARI	**Performance Test Voltage**	230V ~ 60HZ
Return Gas	18.3°C (65°F) RETURN GAS	**Motor Type**	PTCS_CR

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	90	100	110	120	130	140
-15	Btu/h	12800	11300					
	Watts	1720	1810					
	Amps	7.57	7.95					
	Lb/h	164	153					
-10	Btu/h	15400	13700	12000				
	Watts	1870	1940	2020				
	Amps	8.23	8.64	8.91				
	Lb/h	196	183	168				
-5	Btu/h	18300	16400	14500	12600			
	Watts	2020	2090	2160	2230			
	Amps	8.87	9.30	9.63	9.81			
	Lb/h	232	217	201	183			
0	Btu/h	21600	19500	17300	15200	13200		
	Watts	2170	2230	2310	2380	2430		
	Amps	9.48	9.93	10.3	10.6	10.7		
	Lb/h	272	256	238	218	198		
5	Btu/h	25200	22900	20500	18200	15900		
	Watts	2320	2380	2450	2530	2600		
	Amps	10.1	10.5	11.0	11.3	11.5		
	Lb/h	316	298	279	258	236		
10	Btu/h	29100	26600	24000	21500	19000	16600	14400
	Watts	2460	2520	2600	2690	2770	2820	2830
	Amps	10.6	11.1	11.6	12.0	12.4	12.5	12.5
	Lb/h	364	345	324	302	279	257	235
15	Btu/h	33400	30700	27900	25100	22300	19700	17300
	Watts	2600	2650	2740	2840	2940	3020	3060
	Amps	11.1	11.6	12.2	12.7	13.1	13.5	13.6
	Lb/h	415	395	373	350	326	303	280
20	Btu/h	38100	35100	32000	29000	26000	23200	20600
	Watts	2720	2780	2870	2990	3110	3220	3300
	Amps	11.6	12.1	12.7	13.3	13.9	14.4	14.7
	Lb/h	470	450	427	402	378	353	329

25	Btu/h	43100	39800	36600	33300	30100	27000	24100
	Watts	2830	2890	3000	3130	3280	3420	3530
	Amps	12.0	12.6	13.2	13.9	14.6	15.2	15.7
	Lb/h	529	508	484	459	433	407	383
30	Btu/h	48400	44900	41400	37900	34400	31100	27900
	Watts	2920	2990	3110	3270	3440	3610	3760
	Amps	12.5	13.0	13.7	14.5	15.3	16.0	16.7
	Lb/h	592	569	545	519	493	466	441
35	Btu/h	54100	50400	46600	42900	39100	35500	32100
	Watts	3000	3070	3210	3380	3580	3790	3980
	Amps	12.8	13.4	14.2	15.0	15.9	16.8	17.7
	Lb/h	657	635	610	583	556	529	503
40	Btu/h	60200	56200	52200	48100	44200	40300	36600
	Watts	3050	3130	3290	3490	3720	3960	4190
	Amps	13.2	13.8	14.6	15.5	16.5	17.6	18.6
	Lb/h	727	703	678	651	624	596	569
45	Btu/h	66600	62400	58100	53800	49500	45400	41400
	Watts	3070	3170	3340	3570	3830	4110	4390
	Amps	13.5	14.1	14.9	15.9	17.1	18.2	19.4
	Lb/h	799	776	750	723	695	667	640
50	Btu/h	73300	68900	64300	59800	55200	50800	46600
	Watts	3060	3180	3380	3630	3930	4250	4570
	Amps	13.7	14.4	15.2	16.3	17.6	18.9	20.3
	Lb/h	874	851	825	798	770	742	715
55	Btu/h	80500	75700	70900	66100	61300	56600	52100
	Watts	3030	3160	3380	3670	4000	4360	4740
	Amps	13.9	14.6	15.5	16.7	18.0	19.5	21.0
	Lb/h	953	930	904	877	848	820	793

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	2.919822E+04	4.320579E+03	9.741791E+00	2.319010E+02
C2	1.007144E+03	8.401946E+01	3.130021E-01	1.048335E+01
C3	7.895758E+01	-7.726223E+01	-1.091761E-01	3.335422E+00
C4	7.620693E+00	-4.084140E-01	-4.463494E-04	5.643395E-02
C5	-3.735012E+00	-1.175365E+00	-4.985700E-03	-2.386678E-02
C6	-3.005754E+00	8.651161E-01	2.021076E-03	-4.602696E-02
C7	2.159305E-03	-3.936654E-03	-1.561340E-06	-1.175743E-04
C8	-9.591869E-03	4.498184E-03	-1.890816E-06	2.827473E-04
C9	-3.261078E-03	6.270991E-03	3.197256E-05	-2.839274E-05
C10	1.030466E-02	-2.940103E-03	-8.718738E-06	1.323734E-04

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature